CAYM Education Trust's
SIDDHANT INSTITUTE OF COMPUTER APPLICATION
(Approved by AICTE New Delhi,Goverment of Maharashtra RecognisedSavitribaiPhule Pune University)
Add:At post-Sudumbare,Tal-Maval,Dist-Pune-412109,Ph:02114-661992
Email:siddhantica1@gmail.com Website: www.siddhantica.in

TRAINING NOTICE

Date: 1st November 2021

MCA students are hereby informed that starting from 8th November 2021 to 12 November 2021every day till successful delivery of course content, between 2.30 pm and 4.30pm there will be ONLINE training on DS Brush up training. All students are requested to keep necessary technical set up ready at their end.

Training Cell Coordinator
Prof. ReshmaJadhav

Director
SICA

Director
Siddhant Institute of Computer Applications
Sudumbare, Maval, Pune - 412109

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A.Y. 2020-21

DS Brush up training

Date- 8th November 2021 to 12 November 2021
Time-2.30 pm to 4.30pm
Venue-Zoom platform
Speaker – Mrs. ReshmaMavkar

Hands-on ONLINE training sessions on DS Brush up training were organized by the training cell of the institute for MCA students. These sessions were conducted every day in the second half. During these highly interactive sessions, following topics were covered by the trainer:

What is Data Structure:

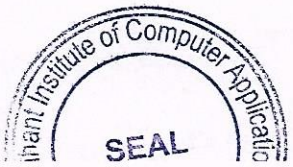
A data structure is a storage that is used to store and organize data. It is a way of arranging data on a computer so that it can be accessed and updated efficiently.

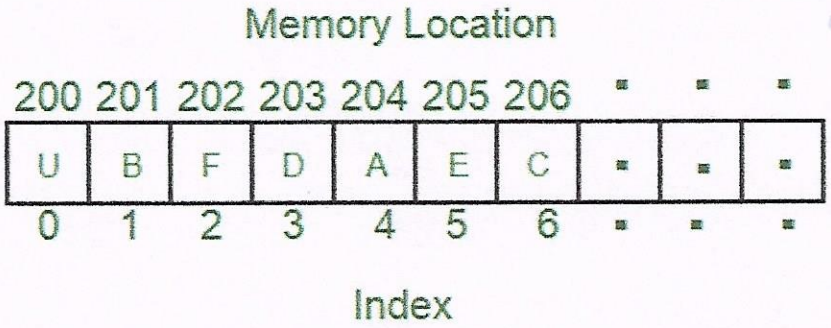
A data structure is not only used for organizing the data. It is also used for processing, retrieving, and storing data. There are different basic and advanced types of data structures that are used in almost every program or software system that has been developed. So we must have good knowledge of data structures.

Data structures are an integral part of computers used for the arrangement of data in memory. They are essential and responsible for organizing, processing, accessing, and storing data efficiently. But this is not all. Various types of data structures have their own characteristics, features, applications, advantages, and disadvantages. So how do you identify a data structure that is suitable for a particular task? What is meant by the term 'Data Structure'? How many types of data structures are there and what are they used for?

Arrays:

An array is a linear data structure and it is a collection of items stored at contiguous memory locations. The idea is to store multiple items of the same type together in one place. It allows the processing of a large amount of data in a relatively short period. The first element of the array is indexed by a subscript of 0. There are different operations possible in an array, like Searching, Sorting, Inserting, Traversing, Reversing, and Deleting.



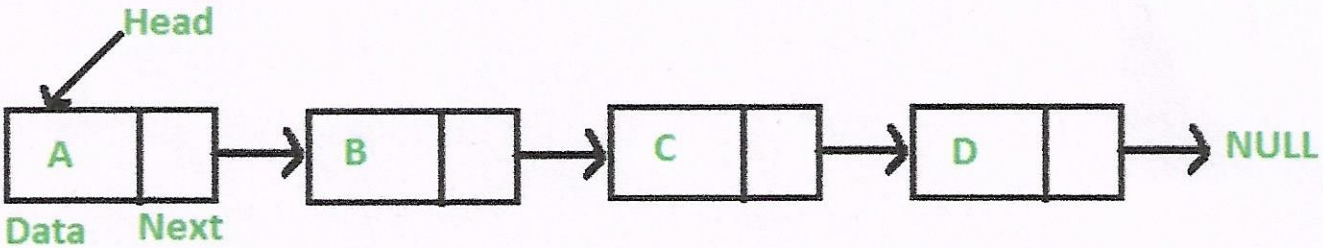


Linked list:

A linked list is a linear data structure in which elements are not stored at contiguous memory locations. The elements in a linked list are linked using pointers as shown in the below image:

Types of linked lists:

- Singly-linked list
- Doubly linked list
- Circular linked list
- Doubly circular linked list



Linked List

Static and Dynamic data structures

In the Static data structure, the size of the structure is fixed. The content of the data structure can be modified without changing the memory space allocated to it.

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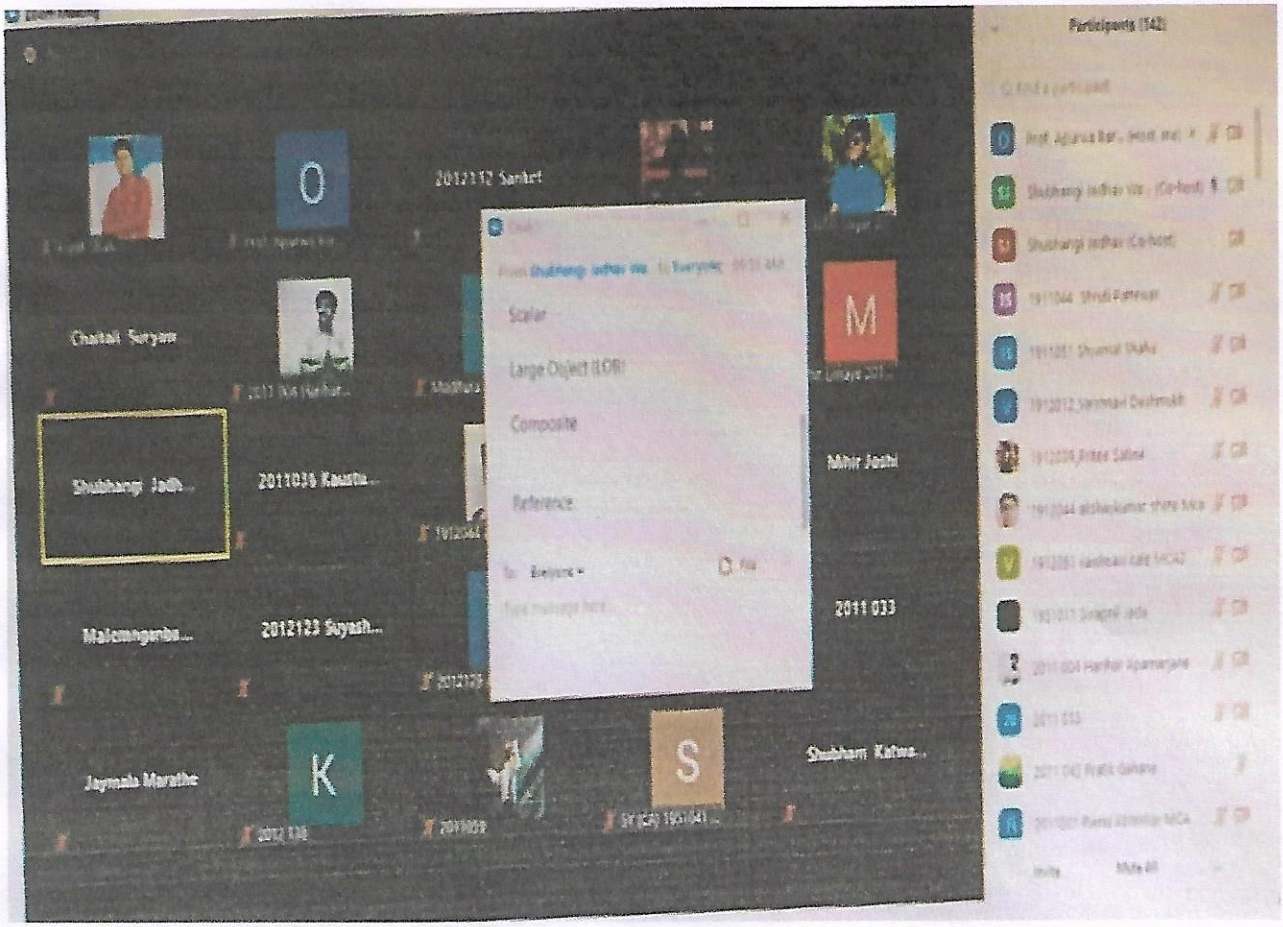
40	55	63	17	22	68	89	97	89
0	1	2	3	4	5	6	7	8

<- Array Indices

Array Length = 9
First Index = 0
Last Index = 8

Photographs



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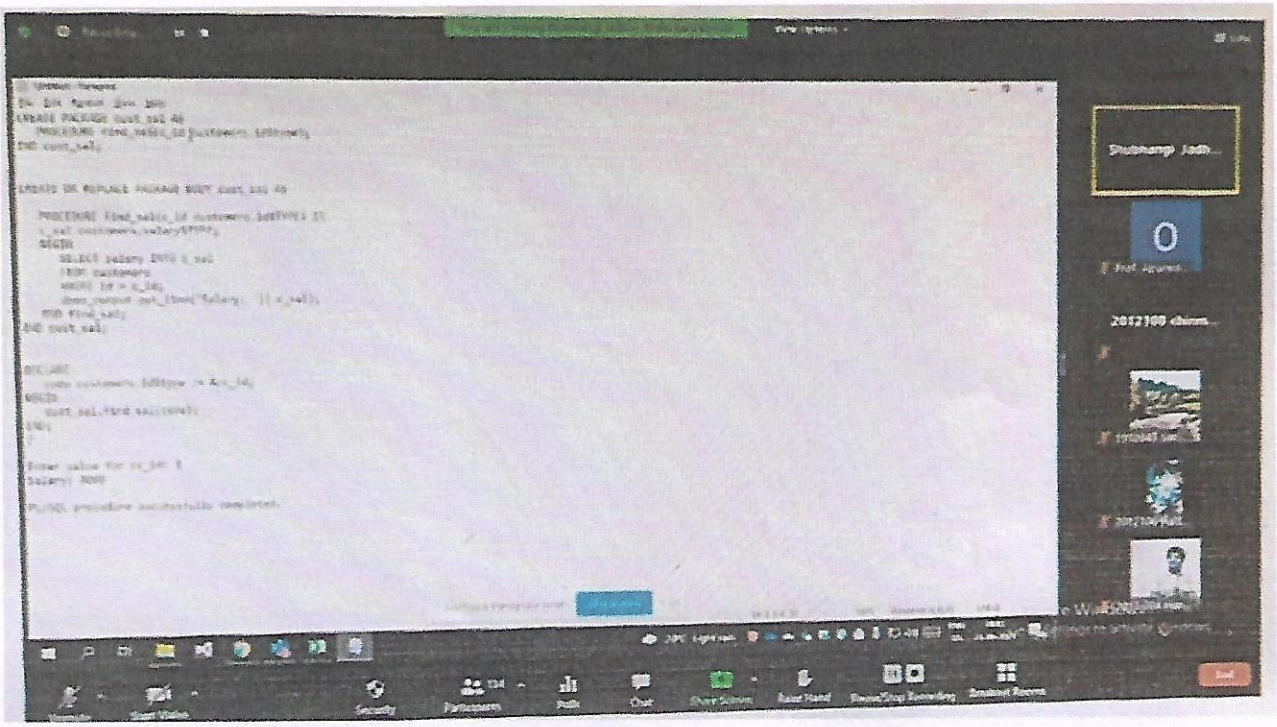

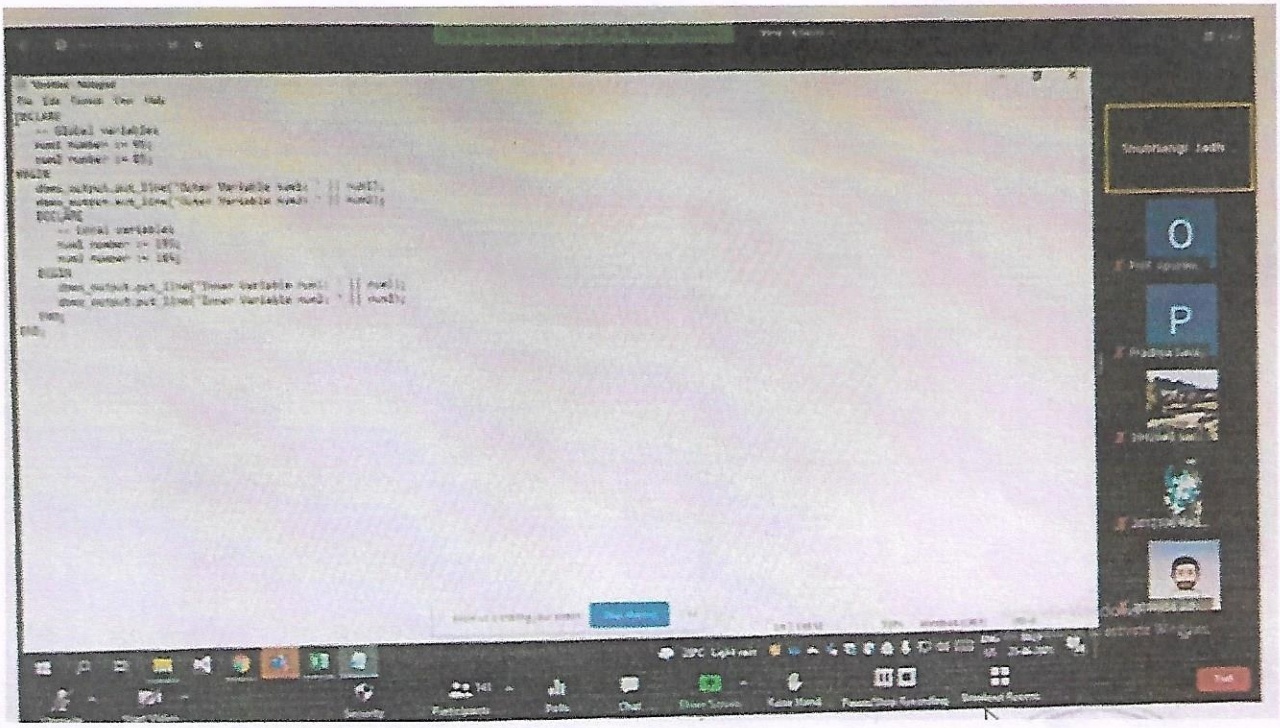

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DS Brush up training Attendance Sheet

Sr. No.	Student Name	08-Nov	09-Nov	10-Nov	11-Nov	12-Nov
1	ABHISHEK AMOL CHIDRAWAR	P	P	P	P	P
2	AKSHAY BABURAO DASHRATHE	P	P	P	P	P
3	AKSHAY PRESHIT PATIL	P	P	P	P	P
4	ANKIT SANJAY SINGH	AB	AB	AB	AB	P
5	ANNADATE MANSI VIJAY	P	P	P	P	P
6	ATTARDE CHAITANYA KIRAN	P	P	P	P	P
7	BARURE PUNDLIK BALAJI	P	P	P	P	P
8	BHAGAT NEERAJKUMAR KIRIT	AB	P	AB	AB	AB
9	BHAWARAY MANISH VIJAYDATT	AB	P	AB	AB	AB
10	BONDE RUSHIKESH PRAKASH	P	P	P	P	P
11	CHOPADE VAIBHAV SANJAY	P	AB	AB	P	P
12	CHOUDHARY BHAVESH KANARAM	P	AB	AB	AB	AB
13	DENKAR RESHMA BALIRAM	P	P	P	AB	AB
14	DHARPAL ARNAV NARENDRA	AB	AB	AB	AB	P
15	GHADGE VAIBHAV DILIP	AB	AB	P	P	P
16	GHOLAP CHETANA KHANDU	AB	AB	P	P	AB
17	GUNJAL POOJA RAJENDRA	P	P	P	P	P
18	HULE NIRANJAN DATTATRAY	P	P	P	P	P
19	HURDALE SHAILESH RAVISHANKAR	AB	AB	AB	AB	AB
20	JADHAV SANKET DATTATRAYA	P	P	P	P	P
21	KADAM POONAM SUBHASH	AB	AB	AB	AB	AB
22	KALASKAR NIKHIL KALASKAR	P	P	P	P	P
23	KAMBLE ADITYA GAUTAM	AB	AB	AB	AB	AB
24	KSHIRSAGAR GANESH SHRINIVAS	P	P	P	P	P
25	MAGAR DIPALI ASHOK	AB	AB	AB	AB	AB
26	MALGHE VAIBHAVI SAHEBRAO	P	P	P	P	P
27	MANKAR VAIBHAV SANJAY	AB	AB	AB	AB	AB
28	MONIKA KUMARI	P	P	P	P	P
29	NERKAR PRIYANKA ISHWARLAL	P	P	P	P	P
30	NIKITA PRADIP KADAM	P	P	P	P	P
31	NILESH SUBHASH RANGARI	P	P	P	P	P
32	NITA SURESH GORADE	P	P	P	P	P

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33	PALAYE RUTUJA ASHISH	P	P	P	P	P
34	PALNE SAGAR SANJAY	P	P	P	P	P
35	PATIL BHUSHAN SUNIL	P	P	P	P	P
36	PATIL SANKET KHUSHAL	AB	AB	AB	AB	AB
37	PRATIK BALASAHEB GAIKWAD	P	P	P	P	P
38	PUND SANKET RAJENDRA	P	P	P	P	P
39	RANUBA SHAMRAO IRKAR	AB	AB	AB	AB	AB
40	ROHINI UDHAV BHARTI	P	P	P	P	P
41	SAHANI SHIVAM VIJAY	P	P	P	P	P
42	SAKPAL PALLAVI SUBHASH	AB	AB	AB	AB	AB
43	SAMAL RAHUL SUNIL	P	P	P	P	P
44	SAMRUDDHI ANILRAO DAMBHARE	AB	AB	AB	AB	AB
45	SHAIKH ALTAF BADSHAHA	P	P	P	P	P
46	SHAIKH FARZANA BABA	P	P	P	P	P
47	SHAIKH SHOAIB RAHIM	P	P	P	P	P
48	SHINDE AAKANKASHA MANGESHKUMAR	P	P	P	P	P
49	SHUBHAM RAMKISAN JOSHI	P	P	P	P	P
50	SHWETA JHA	AB	AB	AB	AB	AB
51	SONARE POOJA RAJU INDU	AB	AB	AB	AB	AB
52	SOURABH DNYANDEV NAGARE	P	P	P	P	P
53	SUHAS SUBHASH KADAM	AB	AB	AB	AB	AB
54	SYED ATHER AHMAD SYED RAHEEM	P	P	P	P	P
55	TALEKAR KOMAL BALIRAM	P	P	P	P	P
56	THOMBARE BHUVNESHWARI YUVRAJ	P	P	P	P	P
57	VAIBHAV MACHINDRA BARNE	AB	AB	AB	AB	AB
58	VERMA NEERAJ MOHANLAL	P	P	P	P	P
59	WADEKAR ABHISHEK NAVNATH	P	P	P	P	P
60	WADEKAR AJIT SANJAY	P	P	P	P	P
61	YASH SHUKLA	P	P	P	P	P
62	YEWATKAR ASHWINI VISHAL	AB	AB	AB	AB	AB

Training Cell Coordinator
Prof. ReshmaJadhav

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